

SPRINKLER NOTES:

- ALL DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT DIMENSIONS IN THE FIELD.
- ALL INSTALLATIONS UNDER THIS CONTRACT SHALL CLEAR EXISTING DUCTS, PIPES, CONDUITS, ETC.
- SUBMIT SHOP DRAWINGS FOR APPROVAL. NO WORK SHALL COMMENCE UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE ENGINEER.

CONTRACTOR SHALL CUT OPENINGS IN GYPSUM BOARD CEILINGS AS REQUIRED TO PERFORM INSPECTIONS FOR PREPARATION OF SHOP DRAWINGS.

UPON COMPLETION OF INSPECTION, ACCESS OPENINGS IN GYPSUM BOARD CEILINGS SHALL BE TEMPORARILY COVERED UNTIL THE INSTALLATION OF NEW PIPING IS READY TO COMMENCE.
- CONTRACTOR SHALL REMOVE CEILINGS AS NECESSARY TO PERFORM WORK UNDER THIS CONTRACT. UPON COMPLETION OF THE INSTALLATION AND TESTING OF THE NEW PIPING, CONTRACTOR SHALL RESTORE CEILINGS TO ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER. FOR GYPSUM BOARD CEILINGS, THE ENTIRE CEILING SHALL BE PAINTED TO MATCH THE ORIGINAL COLOR.
- PIPING AND VALVES REMOVALS SHOWN ON DRAWING SP-2 SHALL INCLUDE ALL ASSOCIATED SUPPORTS. NEW PIPING AND VALVES SHALL BE INSTALLED IN THE SAME LOCATION UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. PAINTING OF PIPING IS NOT REQUIRED.
- CONTRACTOR SHALL PLAN THE PIPING REPLACEMENT IN SECTIONS THAT CAN BE COMPLETED WITHIN THE DAILY WORKING HOURS DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF ALL INTERRUPTIONS OF FIRE PROTECTION AND SUBMIT A STAGING SCHEDULE TO THE ENGINEER FOR APPROVAL, DELINEATING THE SECTIONS OF LOOP PIPING TO BE REPLACED AND/OR ISOLATED DURING EACH WORKING DAY.
- CONTRACTOR SHALL COMPLETE EACH SECTION OF SCHEDULED PIPING REPLACEMENT AND RESTORE SERVICE AT THE END OF EACH WORKING DAY. ANY LEAKS FOUND AFTER RESTORING SERVICE SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
- EXISTING!
REMAINING PORTIONS OF THE SPRINKLER LOOP NOT AFFECTED BY THE DAILY SHUTDOWNS SHALL REMAIN ACTIVE.
- CONTRACTOR SHALL PROVIDE FOR THE SERVICES OF A FIRE WATCH PERSON TO CONDUCT FIRE WATCHES DURING INTERRUPTIONS OF FIRE PROTECTION.
- CONTRACTOR SHALL COORDINATE WITH THE ENGINEER ON AVAILABILITY OF WORK SPACES, INTERFERENCE WITH BUILDING OPERATIONS AND ESTABLISHMENT OF FIRE WATCHES.







ELECTRICAL NOTES

- CHAIN AND LOCK OPEN ALL NEW VALVES BEING INSTALLED UNDER THIS CONTRACT THAT HAVE NO EXISTING WIRING.
- DISCONNECT EXISTING TAMPER SWITCHES WHICH ARE TO BE REPLACED AND CONNECT NEW TAMPER SWITCHES TO EXISTING WIRING.
- WIRING FOR TAMPER SWITCHES SHALL BE 2-14, SHIELDED TEFLON INSULATED.
- TEST EXISTING SPRINKLER ALARM PANELS FOR PROPER OPERATION WITH EQUIPMENT INSTALLED UNDER THIS CONTRACT.
- THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEW YORK CITY BUILDING CODE.
- NOTIFY THE ENGINEER IN WRITING 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH ANY WORK ON THE EXISTING SPRINKLER ALARM SYSTEM.

SCHEDULE OF MATERIALS

- PIPE SHALL BE GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 53, SCHEDULE 40.
- PIPES SHALL BE SUPPLIED WITH ENDS ROLL GROOVED.
- PIPE COUPLING SHALL BE VICTAULIC COUPLING STYLE 11 AS MANUFACTURED BY VICTAULIC COMPANY OR APPROVED EQUAL.
- FITTINGS SHALL BE VICTAULIC FITTINGS WITH ROLL GROOVED ENDS.
- CONNECTION TO VALVES' FLANGES SHALL BE MADE WITH GROOVE TO FLANGE ADAPTERS, STYLE T41, ANSI CLASS 125 AS MANUFACTURED BY VICTAULIC COMPANY OR APPROVED EQUAL.
- VALVES SHALL BE OS&Y, SOLID WEDGE GATE VALVES WITH RISING STEM AND WHEEL HANDLES, RATED FOR 175 PSI. VALVES SHALL HAVE GLAND FOLLOWERS IN STUFFING BOX AND SHALL BE REPACKABLE WHILE OPEN AND UNDER PRESSURE. VALVES SHALL BE FIG - 634 WITH FLANGED ENDS AS MANUFACTURED BY STOCKHAM VALVES OR APPROVED EQUAL.
- TAMPER SWITCHES SHALL BE POTTER ROEMER INC. FIG. 620X OR APPROVED EQUAL.

LEGEND:

- SP ——— EXISTING PIPING TO REMAIN
- ##### EXISTING PIPING TO BE REMOVED
- == SP == NEW EXPOSED PIPING
- == SP == NEW PIPING IN HUNG CEILING
- — — — — AREA BOUNDARY LINE
-  EXISTING VALVE & TAMPER SWITCH TO REMAIN
-  NEW VALVE & TAMPER SWITCH
-  CONNECTION POINT OF NEW TO EXISTING PIPING
-  REDUCER
-  NEW VALVE AND TAMPER SWITCH WITH EXISTING WIRING
-  NEW VALVE AND TAMPER SWITCH WITH NO EXISTING WIRING
- SP SPRINKLER
- EXIST EXISTING
- CLG CEILING
- GYP GYPSUM BOARD CEILING

LIST OF DRAWINGS

DWG. NO.	TITLE
T-1	TITLE SHEET
SP-1	LEGEND, NOTES, LIST OF DRAWINGS AND SCHEDULE OF MATERIALS
SP-2	REMOVALS
SP-3	TRUCK DOCK-1
SP-4	TRUCK DOCK-2
SP-5	2 WTC AND BUILDING SERVICES
SP-6	HOTEL, 2 WTC AND BUILDING SERVICES
SP-7	1 WTC AND BUILDING SERVICES
SP-8	U. S. CUSTOMS
SP-9	DETAILS

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. _____ IN THE FORM IN WHICH SAID DRAWINGS EXISTED AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 7/15/17 David D. Silberberg
SPEC. WRITER
DATE 7/15/17 David D. Silberberg
ENGINEER OF DESIGN

Sheet 2 of 10

THE PORT AUTHORITY
OF NY & NJ

David D. Silberberg
MAINTENANCE ENGINEERING DESIGN DIVISION
CHIEF MECHANICAL ENGINEER

No. Date Revision Approved

Engineering Department
Design Division

World Trade
Center

Title

INSTALLATION OF
MAIN SPRINKLER LOOP
SERVICE LEVEL B-1

LEGEND, NOTES, LIST
OF DRAWINGS AND
SCHEDULE OF MATERIALS

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

V.C. R.L. H. McD.

Designed by Drawn by Checked by

Date 3/28/97 Scale NONE

Contract Number Drawing Number

WTC-176 SP-1